Performance Data Sheet

AE3440Y-AA1A

General Information

Model	AE3440Y-AA1A	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	RSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	2100	2070	1960	1790	1580	1330	1060
	Watts	311	335	352	361	363	360	352
	Amps	4.67	4.77	4.84	4.88	4.89	4.87	4.83
	Lb/h	26.8	27.9	27.7	26.4	24.4	21.8	18.8
10	Btu/h	2390	2350	2240	2060	1840	1590	1330
	Watts	322	349	368	380	386	387	384
	Amps	4.73	4.84	4.92	4.97	5.01	5.01	5.00
	Lb/h	30.5	31.7	31.6	30.5	28.6	26.3	23.5
15	Btu/h	2720	2660	2530	2340	2110	1860	1600
	Watts	332	361	383	399	408	414	415
	Amps	4.79	4.90	5.00	5.07	5.12	5.16	5.17
	Lb/h	34.6	35.7	35.7	34.7	33.0	30.7	28.2
20	Btu/h	3070	2990	2840	2640	2400	2130	1860
	Watts	340	372	397	416	429	439	445
	Amps	4.84	4.97	5.07	5.17	5.24	5.30	5.34
	Lb/h	39.1	40.2	40.1	39.2	37.5	35.4	33.0
25	Btu/h	3470	3360	3180	2960	2690	2410	2130
	Watts	347	381	409	432	449	463	474
	Amps	4.89	5.02	5.15	5.26	5.36	5.44	5.52
	Lb/h	44.2	45.1	45.0	44.0	42.4	40.3	38.0
30	Btu/h	3910	3770	3560	3300	3020	2710	2410
	Watts	352	389	420	446	468	486	502
	Amps	4.92	5.07	5.22	5.35	5.47	5.59	5.69
	Lb/h	49.9	50.7	50.5	49.4	47.7	45.6	43.4
35	Btu/h	4400	4220	3970	3680	3370	3040	2710
	Watts	356	396	430	459	485	508	528
	Amps	4.95	5.12	5.28	5.43	5.58	5.73	5.86
	Lb/h	56.4	57.0	56.6	55.4	53.6	51.4	49.1
40	Btu/h	4960	4720	4440	4110	3760	3390	3040
	Watts	358	400	438	471	501	528	554
	Amps	4.97	5.15	5.33	5.51	5.69	5.86	6.03
	Lb/h	63.9	64.2	63.5	62.1	60.1	57.8	55.4

45	Btu/h	5570	5290	4960	4580	4190	3790	3390
	Watts	358	403	444	481	515	547	578
	Amps	4.98	5.18	5.38	5.58	5.79	5.99	6.20
	Lb/h	72.3	72.3	71.3	69.6	67.4	64.9	62.4
50	Btu/h	6260	5920	5530	5110	4670	4220	3790
	Watts	356	405	449	490	528	565	601
	Amps	4.98	5.20	5.42	5.64	5.88	6.11	6.36
	Lb/h	81.9	81.4	80.1	78.1	75.6	72.9	70.2
55	Btu/h	7030	6630	6180	5700	5200	4710	4230
	Watts	353	404	452	497	539	581	622
	Amps	4.96	5.20	5.44	5.69	5.96	6.23	6.51
	Lb/h	92.7	91.8	90.0	87.6	84.8	81.8	78.8
60	Btu/h	7880	7410	6900	6360	5800	5250	4720
	Watts	348	402	453	502	549	596	643
	Amps	4.93	5.19	5.45	5.73	6.03	6.34	6.66
	Lb/h	105	103	101	98.4	95.1	91.7	88.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-2.888787E+03	-3.041961E+02	2.779282E+00	-5.693043E+01
C2	8.423741E+01	2.456514E+00	2.853288E-02	7.076668E-01
C3	1.316743E+02	1.328341E+01	3.518282E-02	2.078409E+00
C4	1.155627E+00	-4.052740E-02	-1.956433E-04	1.158341E-02
C5	-6.405861E-01	-3.329970E-02	-5.045031E-04	-3.32613E-03
C6	-1.119449E+00	-8.383843E-02	-1.515229E-04	-1.639682E-02
C7	8.711705E-03	-5.193986E-05	-1.703221E-06	1.497041E-04
C8	-1.116717E-02	1.567272E-04	2.257089E-06	-1.167221E-04
C9	3.282753E-03	4.544955E-04	3.784695E-06	3.799241E-05
C10	2.613083E-03	1.481100E-04	-2.483127E-08	3.692973E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature